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SOURCE Newspapers as indicated.

MANY TECHNOLOGICAL ADVANCES AIMED AT SAVING METAL

CUTS COSTS IN MAKING NEW BOILER -- Kommunist, No 61, 12 Mar 50

The Taganrog Krasnyy Kotelschchik Plant has assembled a new boiler, just as productive as the old Lancashire boiler, but which took only half the money and metal to build.

TURNS TO MANUFACTURE OF OWN PARTS -- Sovetskaya Litva, No 93, 15 Apr 50

The Klaypeda Port-Equipment Plant formerly used rigging assemblies from Leningrad plants in the construction of truck cranes. Since transportation was costly, and the parts often arrived late, thereby holding up work, the plant has begun to manufacture these items itself.

Equipment was set up for the manufacture of intermediate reduction gears, steering-mechanism reduction gears, and reduction gears for the hoisting winches. The plant made its own gear cutters for turning out worm gears.

The grooved shafts and the gears attached to them were formerly made by hand at the plant. Now they are produced on a milling machine having a special attachment. Use of this attachment has upped productivity of labor 5-6 times, and has greatly improved the quality of the parts.

A device designed by the foreman of the ship-repair shop permits a minimum of tolerance in pouring bearings. This device is counted on to save the plant 3,000 rubles' worth of babbitt per month.

BUILDS MACHINES FROM SAVED MATERIAL -- Vechernyaya Moskva, No 93, 19 Apr 50

In one year the Moscow Mashinostroitel' Plant of the Ministry of Transportation has realized a 10-percent saving in rolled steel, and a 4.2-percent saving in molten steel. This saved metal went into the construction of 8 excavators, 5 truck cranes, 20 universal wood-working lathes, and 100 tons of spare parts.

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NEW MACHINING METHOD SAVES METAL -- Moskovskaya Pravda, No 53, 21 Apr 50

At the Respirator Plant (director, Zhukov), the manufacture of many nuts, sockets, washers, end-caps, and similar parts is called for. Ordinarily, in the machining of such parts, the entire core of the blank goes into chips. To utilize the maximum amount of metal, the director of the automatics shop, Aleksandr Shavrin, has developed a new method of machining these parts.

Under this method, two parts are turned out of the same blank, a smaller one being machined from the core, and then cut off, after which the larger, hollow-center part is machined. The order may be reversed. Special tools have been made at the plant for this work: hollow-center mills and taps, form drills, and internal cutting-off tools. Special holders allow the automatics to handle more tools.

Ten automatics are now operating under this method, and are equipped to make 21 different parts under it. Time is saved in manufacture since there are fewer billets to be furnished per part. Labor productivity is increasing 10-15 percent.

A saving in nonferrous metal of over 10 tons for each automatic working under the new method should be realized, for 1950.

CUTS DOWN ON METAL CONSUMPTION -- Moskovskaya Pravda, No 56, 25 Apr 50

A change in the forging process for a certain part produced at the Moscow Borets Plant has lightened the part 25 percent, and is saving 50 kilograms of steel on each machine.

Substitution of free forging for stamping of an alloyed-steel part has reduced its weight by 5.45 kilograms. A new process used in the manufacture of another part saves 4.8 kilograms of metal.

INSTITUTES METAL-SAVING PROGRAM -- Leningradskaya Pravda, No 87, 12 Apr 50

The Anzhero-Suzhensk Svet Shakhtera Coal-Machinery Plant has resolved to save 2,500 tons of metal by the end of this year.

A special scrap-salvage section which was set up saved 71 tons of metal in one month -- enough to build dozens of machines. It has been suggested that covers for certain parts on conveyers be made from salvaged scrap.

Also in line with the program, a new method has been evolved for laying out patterns for stamping of scraper-conveyer parts.

APPLY MORE ECONOMICAL METHODS -- Sovetskaya Estoniya, No 99, 25 Apr 50

By substituting punching for drilling in the manufacture of nuts, the Tallin Machine-Building Plant is saving 2 tons of metal for every 200,000 nuts made. In the machine shop, a reconditioning process is effecting a 50-percent saving in oil.

In other shops of the plant, transmission systems have been replaced by individual motors. Automatic electric welding is being applied, which will bring a 50-percent saving in electric energy.

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